BRUHAT BENGALURU MAHANAGARA PALIKE, YELAHANKA
PROJECTS DIVISION

Bruhat Bengaluru Mahanagara Palike

Name of Work :- Name of Work :-Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division

(PACKAGE NO-11)

QUALITY CONTROL REPORTS

"SECOND & PART BILL"

Name of Work :-Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division.(PACKAGE NO-11)

Quality Control Abstract

Job code: 003-22-000007

Bill Number: 2nd &Part Bill

Name of contractor: Sri C. Halappa

Sl No.	Description of Materials	Test	No of Units Tested	No of samples conducted	Test result	Remarks
1	Cement	IS: 12269-1987	Per Batch	Per Batch	Satisfactory	-
2	Aggregates	IS: 383-1970	Per Batch	Per Batch	Satisfactory	-
3	Aggregates	As per Morth	Per Batch	Per Batch	Satisfactory	-
4	GSB	to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.	Per Batch	Per Batch	Satisfactory	-
5	Wet Mix	to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.	Per Batch	Per Batch	Satisfactory	-
6	Steel TMT	IS: 1876:2008, IS 1608:2005,IS1599:1985	Per Batch	Per Batch	Satisfactory	-
7	230 mm		Per Batch	Per Batch	Satisfactory	-
8	Kerb	Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.	Per Batch	Per Batch	Satisfactory	-
9	Bitumen	Requirements as per I.S 73 -1992 IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.				
10	M20 Concrete	Compressive Strength (IS 516-1959)	120	120	Satisfactory	-
11	M30 Concrete	Compressive Strength (IS 516-1959)	96	96	Satisfactory	-

CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Cement Date: 14/04/2022

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	165 Min	Shall Not be less than 30 Min
2.	Final Setting Time	280 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.86 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.00 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	28.65 N/Sqmm	Shall not be less than 27 N /Sq mm

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE: 9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Cement Date: 14/04/2022

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	161 Min	Shall Not be less than 30 Min
2.	Final Setting Time	272 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.95%	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.30 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	29.45 N/Sqmm	Shall not be less than 27 N /Sq mm

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Cement Date: 14/04/2022

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	156 Min	Shall Not be less than 30 Min
2.	Final Setting Time	270 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	2.00 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.45 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	29.00 N/Sqmm	Shall not be less than 27 N /Sq mm

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Cement Date: 14/04/2022

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	177 Min	Shall Not be less than 30 Min
2.	Final Setting Time	275 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.80 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.15 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	29.45 N/Sqmm	Shall not be less than 27 N /Sq mm

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Cement Date: 20/04/2022

2. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	160 Min	Shall Not be less than 30 Min
2.	Final Setting Time	285 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.60 %	Not to pExceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.45 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	30.20 N/Sqmm	Shall not be less than 27 N /Sq mm

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Fine Agg Date: 14/04/2022

1. Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	17.41%	NA
2.	Silt Content	-	.68%	Not more than 8%
3.	Specific Gravity	-	2.60	--

SHRIYA CONSTRUCTION AND CONSULTANCY

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MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Fine Agg Date: 14/04/2022

1. Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	17.44%	NA
2.	Silt Content	-	.56%	Not more than 8%
3.	Specific Gravity	-	2.75	--

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Fine Agg

Date: 20/04/2022

2. Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	18.50%	NA
2.	Silt Content	-	.61%	Not more than 8%
3.	Specific Gravity	-	2.80	--

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 14/04/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013
1.	Aggregate Impact Value	**27.63 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.43 %**	Not more than 35.0 %
3.	Water absorption, %	**0.48 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE: 9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Cou Agg

Date: 14/04/2022

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	94.35	95-100
26.50	---	-
22.40	74.15	60-80
11.20	52.10	40-60
4.75	36.45	25-40
2.36	26.70	15-30
0.600	18.05	8-22
0.075	3.45	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE: 9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 14/04/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.64 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.60 %**	Not more than 35.0 %
3.	Water absorption, %	**0.53 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 14/04/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.63 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.70 %**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Cou Agg

Date: 14/04/2022

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.15	95-100
26.50	---	-
22.40	79.25	60-80
11.20	53.40	40-60
4.75	36.15	25-40
2.36	24.60	15-30
0.600	19.35	8-22
0.075	3.85	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Cou Agg Date: 20/04/2022

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	94.35	95-100
26.50	---	-
22.40	74.15	60-80
11.20	52.10	40-60
4.75	36.45	25-40
2.36	26.70	15-30
0.600	18.05	8-22
0.075	3.45	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE: 9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 20/04/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.66 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.74 %**	Not more than 35.0 %
3.	Water absorption, %	**0.47 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE: 9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Cou Agg

Date: 20/04/2022

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**94.35**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**52.10**	40-60
4.75	**36.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.45**	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE: 9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 20/04/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.45 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.55 %**	Not more than 35.0 %
3.	Water absorption, %	**0.50 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE: 9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Cou Agg

Date: 20/04/2022

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	94.35	95-100
26.50	---	-
22.40	74.15	60-80
11.20	52.10	40-60
4.75	36.45	25-40
2.36	26.70	15-30
0.600	18.05	8-22
0.075	3.45	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/ GSB

Date: 02/04/2022

TEST REPORT ON GRANULAR SUBBASE MIX (GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	96.45	80-100
26.50	82.60	55-90
9.50	56.15	35-65
4.75	43.05	25-50
2.36	17.25	10-20
0.85	8.50	2-10
0.425	3.05	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/ GSB

Date: 02/04/2022

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

1. **Gradation Test:**

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	94.65	80-100
26.50	81.35	55-90
9.50	52.15	35-65
4.75	47.80	25-50
2.36	16.25	10-20
0.85	7.90	2-10
0.425	4.10	0-5

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 02/04/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.43%**	Not more than 2.0 %
2.	Liquid Limit, %	**18.50**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.60**	----------
5.	Aggregate Impact Value, %	**28.71**	Not more than 40.00 %

MOBILE-9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 08/04/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.39 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.30**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.86**	----------
5.	Aggregate Impact Value, %	**28.50**	Not more than 40.00 %

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MOBILE: 9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

Date: 08/04/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.42%**	Not more than 2.0 %
2.	Liquid Limit, %	**18.24**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.84**	----------
5.	Aggregate Impact Value, %	**28.02**	Not more than 40.00 %

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MOBILE:9945744759

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/WMM Grad Date: 10-04-2022

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	94.36	95-100
26.50	---	-
22.40	74.14	60-80
11.20	52.15	40-60
4.75	36.40	25-40
2.36	26.71	15-30
0.600	18.04	8-22
0.075	3.43	0-5

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/WMM Grad Date: 12-04-2022

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	95.45	95-100
26.50	---	-
22.40	70.15	60-80
11.20	54.25	40-60
4.75	35.90	25-40
2.36	23.05	15-30
0.600	17.25	8-22
0.075	3.50	0-5

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/WMM Grad Date: 12-04-2022

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	95.10	95-100
26.50	---	-
22.40	72.35	60-80
11.20	54.80	40-60
4.75	31.55	25-40
2.36	25.30	15-30
0.600	18.90	8-22
0.075	3.15	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE-9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/ M30 Road

Date: 25/05/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: **M30**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Channamma-Narayanappa Layout, Cross road to Narayanagowda Layout and	18-05-2022	25-05-2022	8.20	7	480.00	21.33	21.35
2		"	"	8.40	"	476.00	21.16	
3		"	"	8.50	"	495.00	22.00	
4		"	"	8.43	"	455.00	20.22	
5		"	"	8.30	"	478.00	21.24	
6		"	"	8.55	"	498.00	22.13	

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SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/ M30 Road Date: 15/06/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: **M30**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Channam ma- Narayanap pa Layout, Cross road to Narayanag owda Layout and.	18-05-2022	15-06-2022	8.55	28	805.00	35.78	34.78
2		"	"	8.42	"	788.00	35.02	
3		"	"	8.33	"	785.00	34.89	
4		"	"	8.45	"	765.00	34.00	
5		"	"	8.20	"	795.00	35.33	
6		"	"	8.19	"	757.00	33.64	

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MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/ M30 Road

Date: 16/06/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: **M30**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Channamma-Narayanappa Layout, End Road till Nalah	19-05-2022	16-06-2022	8.31	28	800.00	35.56	35.31
2		"	"	8.42	"	814.00	36.18	
3		"	"	8.52	"	785.00	34.89	
4		"	"	8.40	"	798.00	35.47	
5		"	"	8.15	"	805.00	35.78	
6		"	"	8.62	"	765.00	34.00	

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#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/ M30 Road

Date: 16/06/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: **M30**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Channamma-Narayanappa Layout, End Road till Nalah	19-05-2022	16-06-2022	8.26	28	810.00	36.00	34.61
2		"	"	8.25	"	765.00	34.00	
3		"	"	8.40	"	756.00	33.60	
4		"	"	8.24	"	777.00	34.53	
5		"	"	8.66	"	800.00	35.56	
6		"	"	8.42	"	765.00	34.00	

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SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/ M30 Road

Date: 16/06/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: **M30**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Channam ma-Narayanap pa Layout, End Road till Malari	01-05-2022	16-06-2022	8.55	28	765.00	34.00	34.66
2		"	"	8.62	"	788.00	35.02	
3		"	"	8.40	"	765.00	34.00	
4		"	"	8.21	"	800.00	35.56	
5		"	"	8.36	"	805.00	35.78	
6		"	"	8.45	"	756.00	33.60	

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MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/ M30 Road

Date: 24/03/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: **M30**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Prakruthi Layout 1st Cross Road , Cross Road At End and 2nd Cross Road	19-05-2022	16-06-2022	8.51	28	745.00	33.11	34.22
2		"	"	8.10	"	784.00	34.84	
3		"	"	8.52	"	768.00	34.13	
4		"	"	8.30	"	740.00	32.89	
5		"	"	8.17	"	780.00	34.67	
6		"	"	8.40	"	803.00	35.69	

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MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/DRN. Slab

Date: 01/03/2022

Precast Drain Slab 100mm Thick (Core Cutting Method) Test Report

Sub: Testing of Concrete Drain Slab (Core Cutting Method) – Compressive Strength

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M20**
Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 50 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength-N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	81	.355	2317.9	1.56	.960	34.5	17.60	18.98	18.22	22.65
2.	80	.368	2342.7	1.60	.960	35.6	18.23	19.58	18.80	23.50
3.	82	.382	2372.5	1.64	.960	33.2	16.75	18.26	17.53	21.40

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MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/KERB

Date: 25/05/2022

KerbStone (Core Cutting Method) Test Report

Sub: Testing of concrete Kerb Stones (Core Cutting Method) – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M15**
Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 50 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength - N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	78	.354	2311.4	1.56	.960	26.3	13.50	14.47	13.39	17.55
2.	80	.368	2342.7	1.60	.960	26.3	13.45	14.47	13.39	17.27
3.	82	.382	2372.5	1.64	.960	25.10	12.50	13.81	13.25	16.85

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SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/BIT-EX

Date: 06-06-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.
Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.
Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	96.24	90-100
19.0	81.16	71-95
13.20	74.41	56-80
4.75	48.71	38-54
2.36	36.04	28-42
0.300	17.89	7-21
0.075	6.39	2-8

SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

SHRIYA CONSTRUCTION AND CONSULTANCY

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/**BIT-EX**

Date: 06-06-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.
Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.
Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.50 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	96.44	90-100
19.0	80.56	71-95
13.20	72.61	56-80
4.75	47.09	38-54
2.36	35.79	28-42
0.300	18.26	7-21
0.075	5.16	2-8

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SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/**BIT-VG-30**

Date: 07-06-2022

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.
Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.
Name of Agency/ contractor: Sri C Halappa.
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25⁰ C	**51.10⁰ C**	Min. 45
2.	Ductility Value at 25⁰ C	**108.0 cm**	40
3.	Flash point	**238⁰ C**	Minimum 220⁰ C
4.	Softening point	**50.55⁰ C**	Min. 47

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SHRIYA CONSTRUCTION AND CONSULTANCY

MOBILE:9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/**BIT-CA**

Date: 07-06-2022

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.
Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.
Name of Agency/ contractor: Sri C Halappa.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**22.83 %**	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	**27.57%**	Not more than 35.0 %
3.	Water absorption, %	**0.40%**	Not more than 2.0 %
4.	Specific gravity	**2.61**	-------
5.	Soundness	**5.30%**	Max. 12 % in Sodium Sulphate

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MOBILE:9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/**BIT-STB**

Date: 07-06-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.
Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.
Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1360**	900
2	Marshall Flow at 60°C, mm.	**3.50**	2.0 - 4.0

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MOBILE: 9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/BIT-EX

Date: 07-06-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.
Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.
Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.44 %**

2. **Gradation Test**

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	96.75	90-100
9.5	82.35	70-88
4.75	67.90	53-71
2.36	53.35	42-58
1.18	43.65	34-48
0.600	32.00	26-38
0.300	24.30	18-28
0.150	18.80	12-20
0.075	7.70	4-10

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MOBILE: 9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/BIT-EX

Date: 07-06-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.
Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.
Name of Agency/ contractor: Sri C Halappa.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43 %**

2. **Gradation Test**

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specifications-2013 BC (Grading - 2)
19.0	100	100
13.2	95.00	90-100
9.5	81.40	70-88
4.75	65.90	53-71
2.36	52.30	42-58
1.18	44.75	34-48
0.600	30.25	26-38
0.300	24.80	18-28
0.150	18.65	12-20
0.075	7.00	4-10

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MOBILE:9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Raft

Date: 09/05/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Prakruthi Layout 1st and 2md Cross Road Raft Concrete	02-05-2022	09-05-2022	8.22	7	366.00	16.27	17.61
2		"	"	8.25	"	345.00	15.33	
3		"	"	8.55	"	385.00	17.11	
4		"	"	8.14	"	396.00	17.60	
5		"	"	8.65	"	400.00	17.78	
6		"	"	8.05	"	485.00	21.56	

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MOBILE: 9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Raft

Date: 10/05/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Vaderahalli LHS Side Drain Raft CH: 00.00 to 255.00 m	03-05-2022	10-05-2022	8.22	7	366.00	16.27	17.33
2		"	"	8.21	"	400.00	17.78	
3		"	"	8.14	"	425.00	18.89	
4		"	"	8.32	"	410.00	18.22	
5		"	"	8.12	"	384.00	17.07	
6		"	"	8.15	"	355.00	15.78	

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MOBILE:9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Raft

Date: 11/05/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Vaderahall i LHS Side Drain Raft CH: 255.00to 402.00 m	04-05-2022	11-05-2022	8.11	7	354.00	15.73	17.10
2		"	"	8.14	"	399.00	17.73	
3		"	"	8.10	"	400.00	17.78	
4		"	"	8.36	"	405.00	18.00	
5		"	"	8.52	"	384.00	17.07	
6		"	"	8.42	"	366.00	16.27	

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MOBILE:9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Raft

Date: 05/06/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Vaderahalli LHS Side Drain Raft CH: 00.00 to 245.00 m	08-05-2022	05-06-2022	8.10	28	555.00	24.67	23.07
2		"	"	8.25	"	512.00	22.76	
3		"	"	8.14	"	534.00	23.73	
4		"	"	8.62	"	524.00	23.29	
5		"	"	8.35	"	500.00	22.22	
6		"	"	8.42	"	490.00	21.78	

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MOBILE: 9945744759

#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Side Walls

Date: 31/05/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

SI No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Prakruthi Layout 1st and 2md Cross Road Sides Concrete	03-05-2022	31-05-2022	8.22	28	584.00	25.96	24.65
2		"	"	8.42	"	568.00	25.24	
3		"	"	8.25	"	574.00	25.51	
4		"	"	8.33	"	586.00	26.04	
5		"	"	8.21	"	511.00	22.71	
6		"	"	8.00	"	505.00	22.44	

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SHRIYA CONSTRUCTION AND CONSULTANCY
MOBILE: 9945744759
#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Raft

Date: 16/05/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Vaderahall i LHS Side Drain Sides CH: 00.00 to 245.00 m	09-05-2022	16-05-2022	8.20	7	400.00	17.78	18.04
2		"	"	8.40	"	410.00	18.22	
3		"	"	8.20	"	420.00	18.67	
4		"	"	8.05	"	425.00	18.89	
5		"	"	8.10	"	395.00	17.56	
6		"	"	8.36	"	385.00	17.11	

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MOBILE: 9945744759
#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Sides

Date: 17/05/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Vaderahall i LHS Side Drain Sides CH:245.00 to 402.00 m	10-05-2022	17-06-2022	8.40	7	400.00	17.78	17.67
2		"	"	8.34	"	420.00	18.67	
3		"	"	8.40	"	387.00	17.20	
4		"	"	8.56	"	399.00	17.73	
5		"	"	8.41	"	400.00	17.78	
6		"	"	8.23	"	380.00	16.89	

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SHRIYA CONSTRUCTION AND CONSULTANCY
MOBILE:9945744759
#1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town Bangalore 560064.

NO: YEL-D/PMC/PKG-11/Sides

Date: 07/06/2022

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work :- Restoration and Improvements of Channamma and Narayanappa layout, Narayanagowda layout, Basavalingappa layout and surrounding areas in ward no -03 of Yelahanka New town Sub division (PACKAGE NO-11)

Ref: Material Testing/PMC/21-22.

Report submitted to: Assistant Executive Engineer, Yelahanka Division, BBMP Bangalore.

Name of Agency/ contractor: Sri C Halappa.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M20**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Vaderahalli LHS Side Drain Raft CH:245.00 to 402.00 m	10-05-2022	07-06-2022	8.35	28	562.00	24.98	24.35
2		"	"	8.42	"	547.00	24.31	
3		"	"	8.31	"	582.00	25.87	
4		"	"	8.20	"	520.00	23.11	
5		"	"	8.00	"	511.00	22.71	
6		"	"	8.15	"	565.00	25.11	

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